



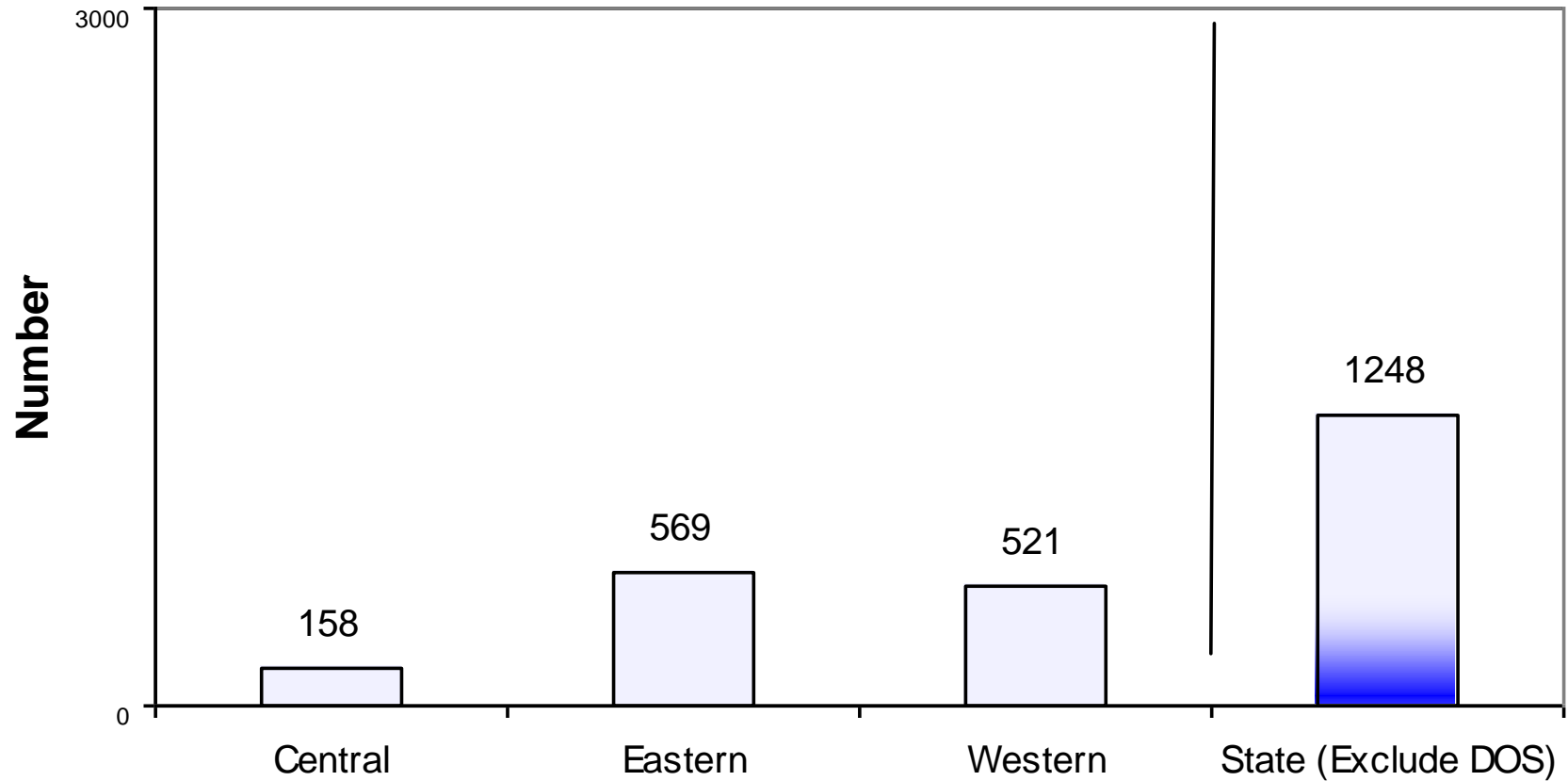
State Trauma Care Committee Report November 17, 2008

Montana Trauma Registry
January 1 – June 30, 2008

N = 1248

MT STCC 1st , 2nd Qtrs 2008

Total Patients



N = 1248

MT STCC 1st and 2nd Qtrs 2008

Central Region Facilities

| | |
|---|-----|
| Fort Benton - Missouri River Medical Center | 6 |
| Big Sandy - Big Sandy Medical Center | 1 |
| Choteau - Teton Medical Center MAF | 1 |
| Conrad - Pondera Medical Center | 10 |
| Chester - Liberty County Hospital | 4 |
| Great Falls- Benefis Health Care | 83 |
| Townsend - Broadwater Health Center | 3 |
| Helena - St. Peter's Hospital | 37 |
| White Sulphur Springs - Mountainview Med Ctr. | 2 |
| | 147 |

Eastern Region Facilities

| | |
|---|-----|
| Ennis - Madison Valley Hospital | 6 |
| Livingston Memorial Hospital | 24 |
| Sheridan - Ruby Valley Memorial | 1 |
| Roundup Memorial Hospital | 1 |
| Culbertson - Roosevelt Memorial Med Ctr | 6 |
| Harlowton - Wheatland Memorial Hospital | 3 |
| Malta - Phillips County Medical Center | 1 |
| Red Lodge - Beartooth Hospital & Health Center | 8 |
| Wolf Point - Northeast Montana Health Services | 12 |
| Poplar - Northeast Montana Health Services | 11 |
| Glasgow - Frances Mahon Deaconess Hospital | 7 |
| Big Timber - Sweet Grass Community Hospital | 10 |
| Hardin - Big Horn County Memorial Hospital | 6 |
| Crow Agency - IHS Hospital | 39 |
| Bozeman Deaconess Hospital | 100 |
| Billings - Deaconess - Billings Clinic | 209 |
| Billings - Saint Vincent Hospital & Health Center | 122 |
| Colstrip Medical Center | 7 |
| | 573 |

N = 1248

MT STCC 1st and 2nd Qtrs 2008



Western Region Facilities

| | |
|--|-----|
| Plains - Clark Fork Valley Hospital | 15 |
| Polson - St. Joseph Hospital | 8 |
| Anaconda - Community Hospital of Anaconda | 14 |
| Dillon - Barrett Hospital | 16 |
| Superior - Mineral County Hospital | 20 |
| Ronan - St. Luke Community Hospital | 11 |
| Deer Lodge - Powell County memorial Hospital | 15 |
| Kalispell Regional Hospital | 164 |
| Missoula - Community Medical Center | 44 |
| Butte - St. James Community Hospital | 58 |
| Missoula - St. Patrick Hospital | 168 |
| | 533 |



Data Missing

N = 1248

MT STCC 1st and 2nd Qtrs 2008



Cases Submitted after Reports run

N = 1248

MT STCC 1st and 2nd Qtrs 2008



Additional Registry Facilities

- Daniels Memorial, Scobey
- Roosevelt Medical Center, Culbertson
- Granite County, Phillipsburg
- McCone County, Circle
- Central Montana Medical, Lewistown
- Ruby Valley, Sheridan

Additional Registry Facilities

- Prairie Community, Terry
- Madison Valley, Ennis
- Fallon Medical Center, Baker
- Powder River, Broadus
- Dahl Memorial, Ekalaka
- Northern Rockies, Cutbank
- Rosebud Health Center, Forsyth
- Holy Rosary, Miles City

2008 Patient YTD Demographics

**77% ages 10-64 7% < 10 14% ≥ 65
(26% > 55)**

**78% White 13% Native 3% Other
6% ND (Western 2 facilities = 62^{cases}/79%)**

65% Male 34% Female

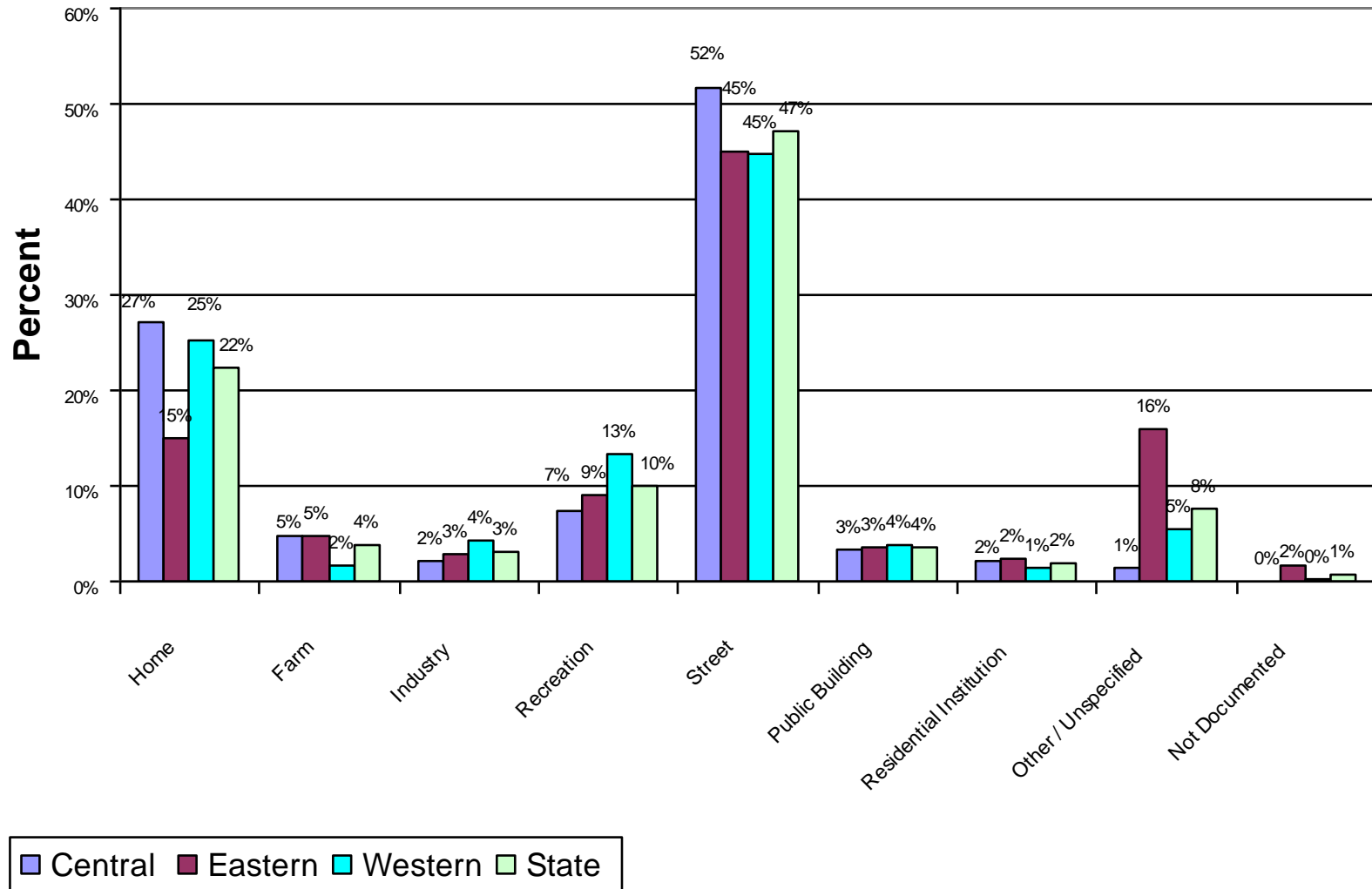
2008 Patient YTD

Demographics

| | |
|-------------------|-----------------------|
| 91% Blunt | 7% Penetrating |
| 2% Burns | 1% Anoxia |
| 39% MVC | 26% Falls |
| 13% MC | 4% Horse |
| 4% Assault | 4% Pedestrian |
| 2% Bicycle | 1% Other |

8% Not Documented (100 cases)

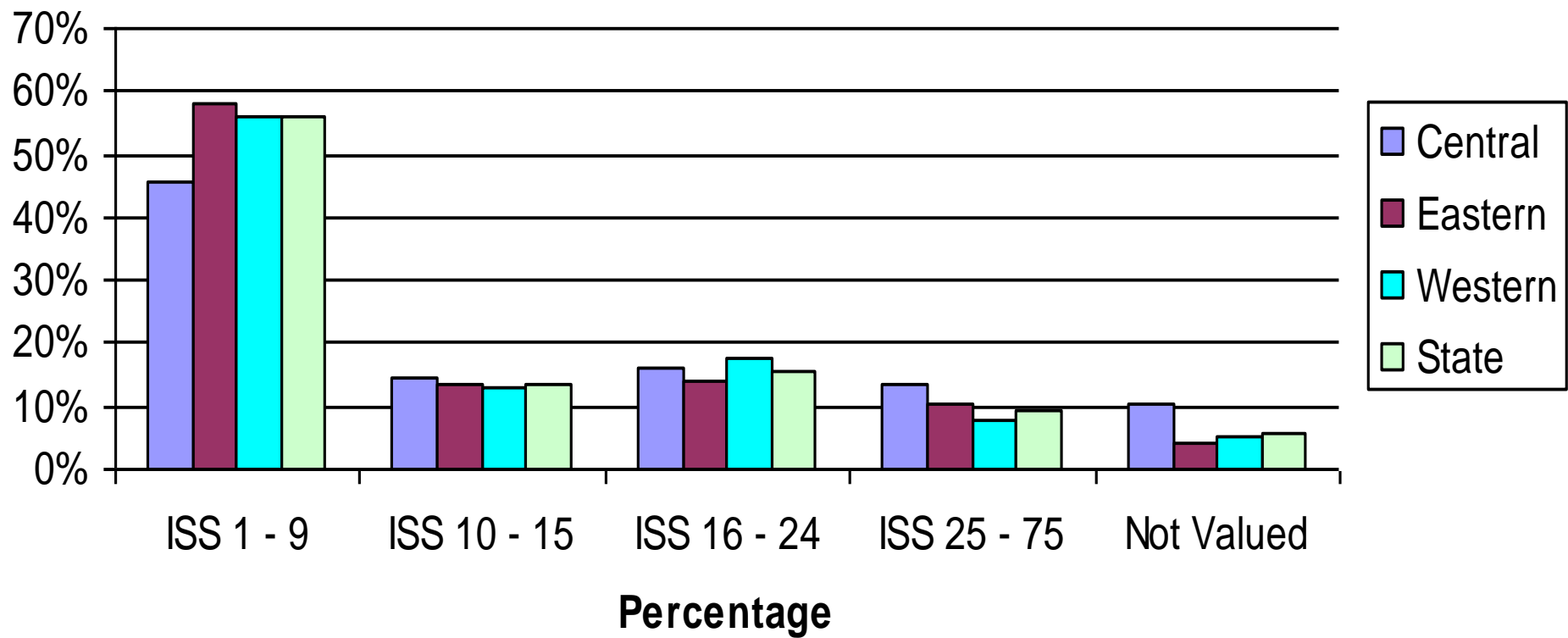
Location by Region Comparison



N = 1248

MT STCC 1st and 2nd Qtrs 2008

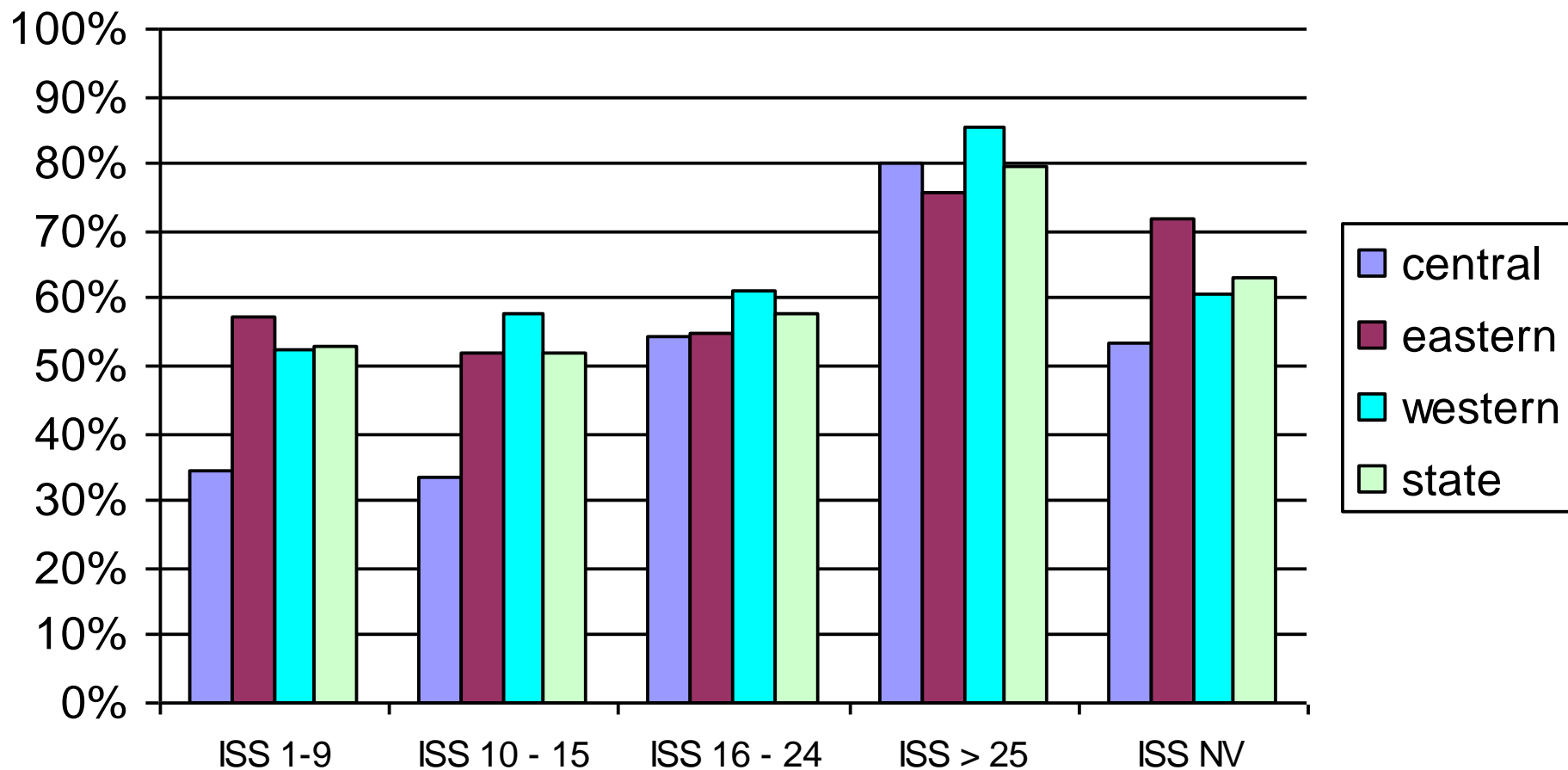
Regional Patients by ISS



N = 1248

MT STCC 1st and 2nd Qtrs 2008

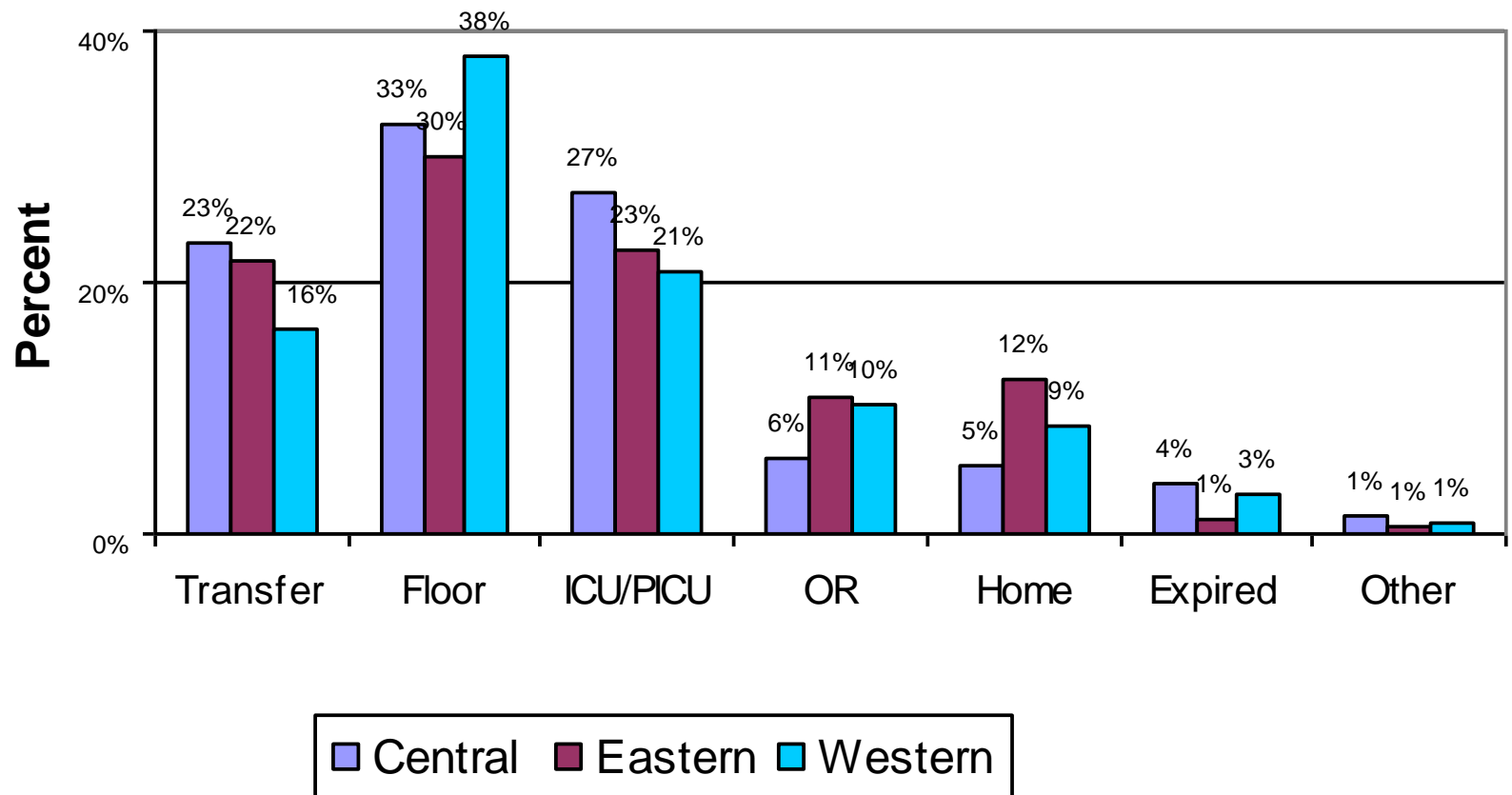
Trauma Team Activation (Full or Partial) by ISS



N = 1248

MT STCC 1st and 2nd Qtrs 2008

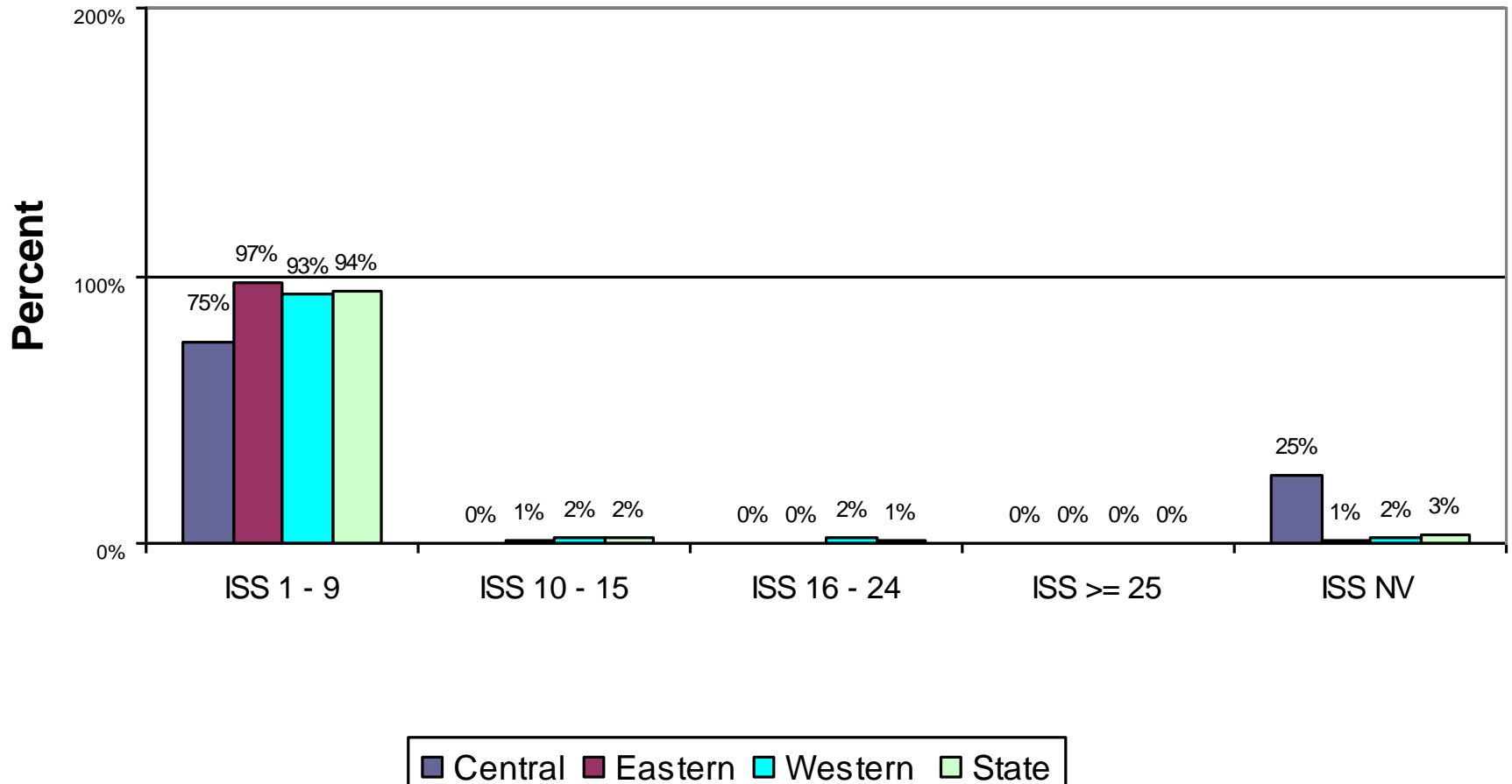
ED Disposition



N = 1248

MT STCC 1st and 2nd Qtrs 2008

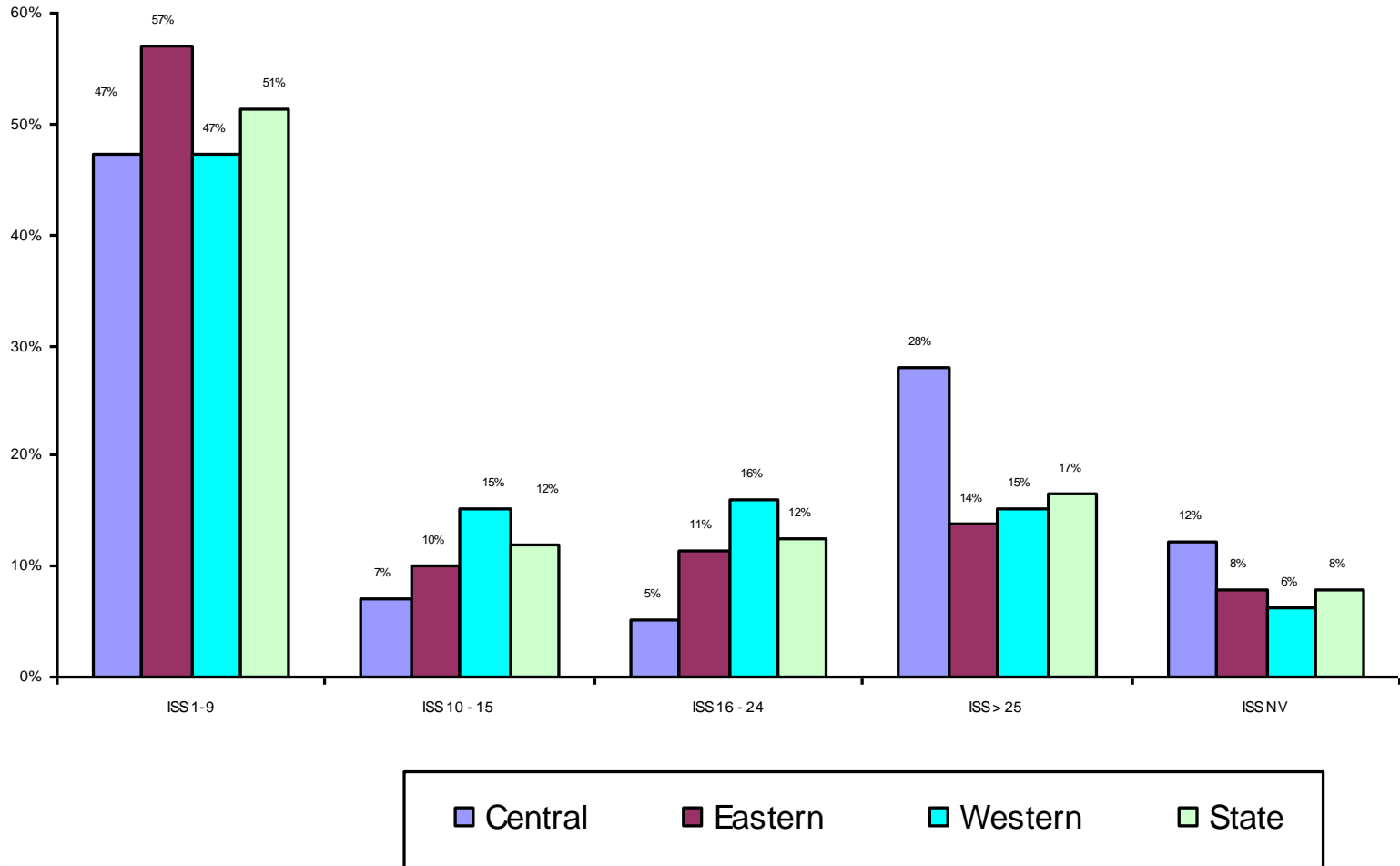
ED to Home by ISS



N = 1248

MT STCC 1st and 2nd Qtrs 2008

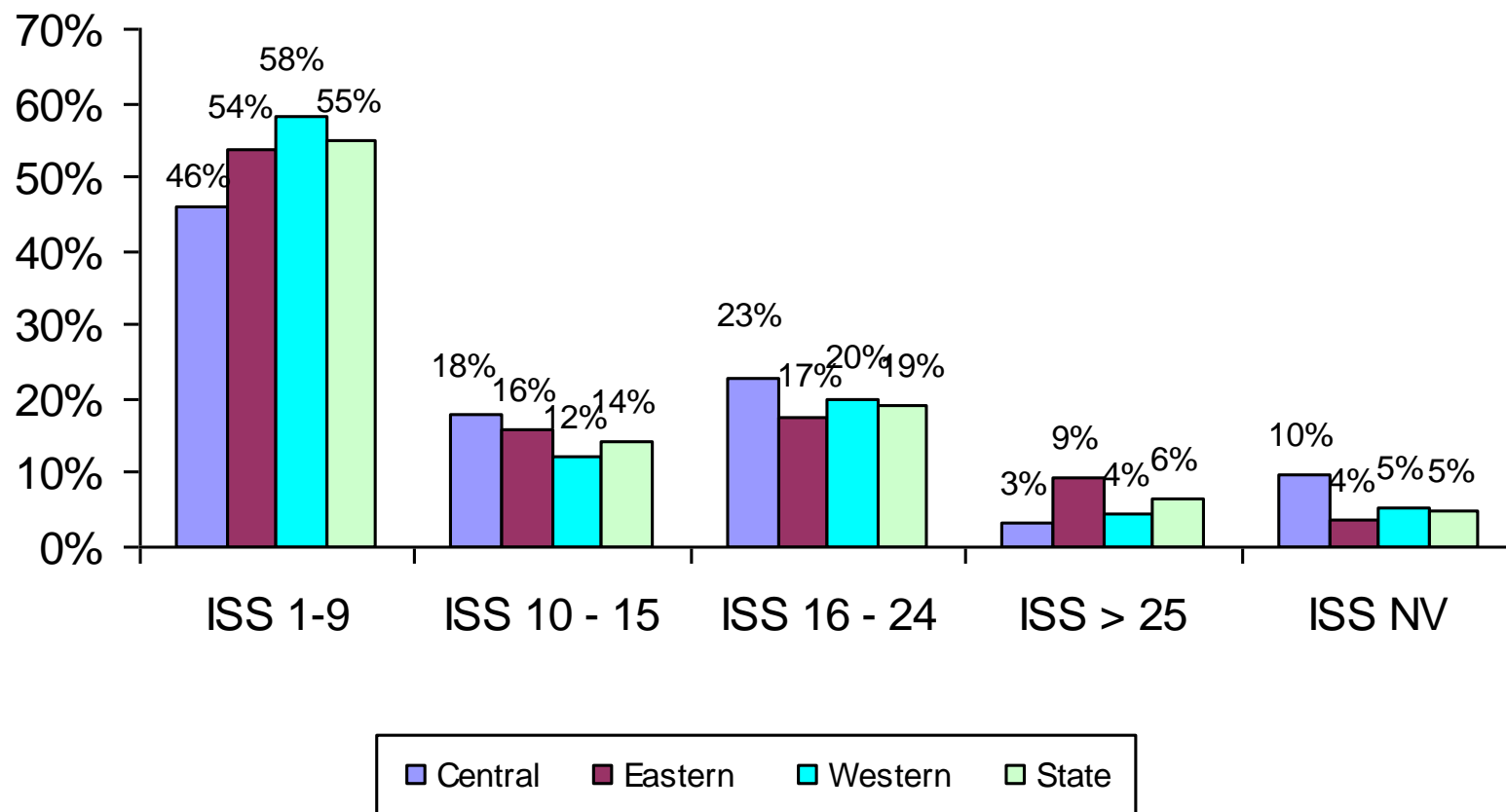
STATE ED LOS: Less than 120 Minutes



N = 1248

MT STCC 1st and 2nd Qtrs 2008

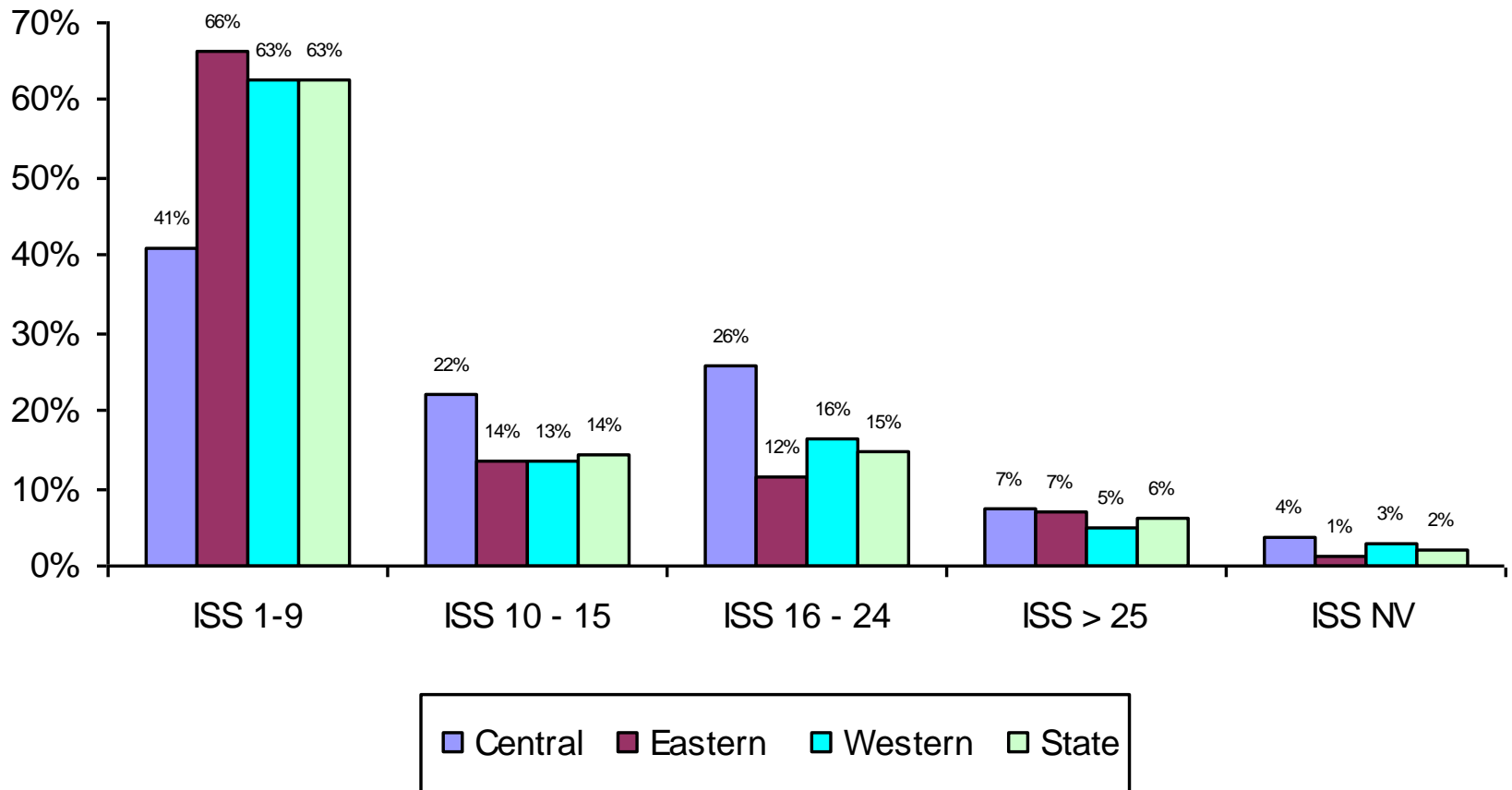
STATE
ED LOS: 120 - 239 Minutes



N = 1248

MT STCC 1st and 2nd Qtrs 2008

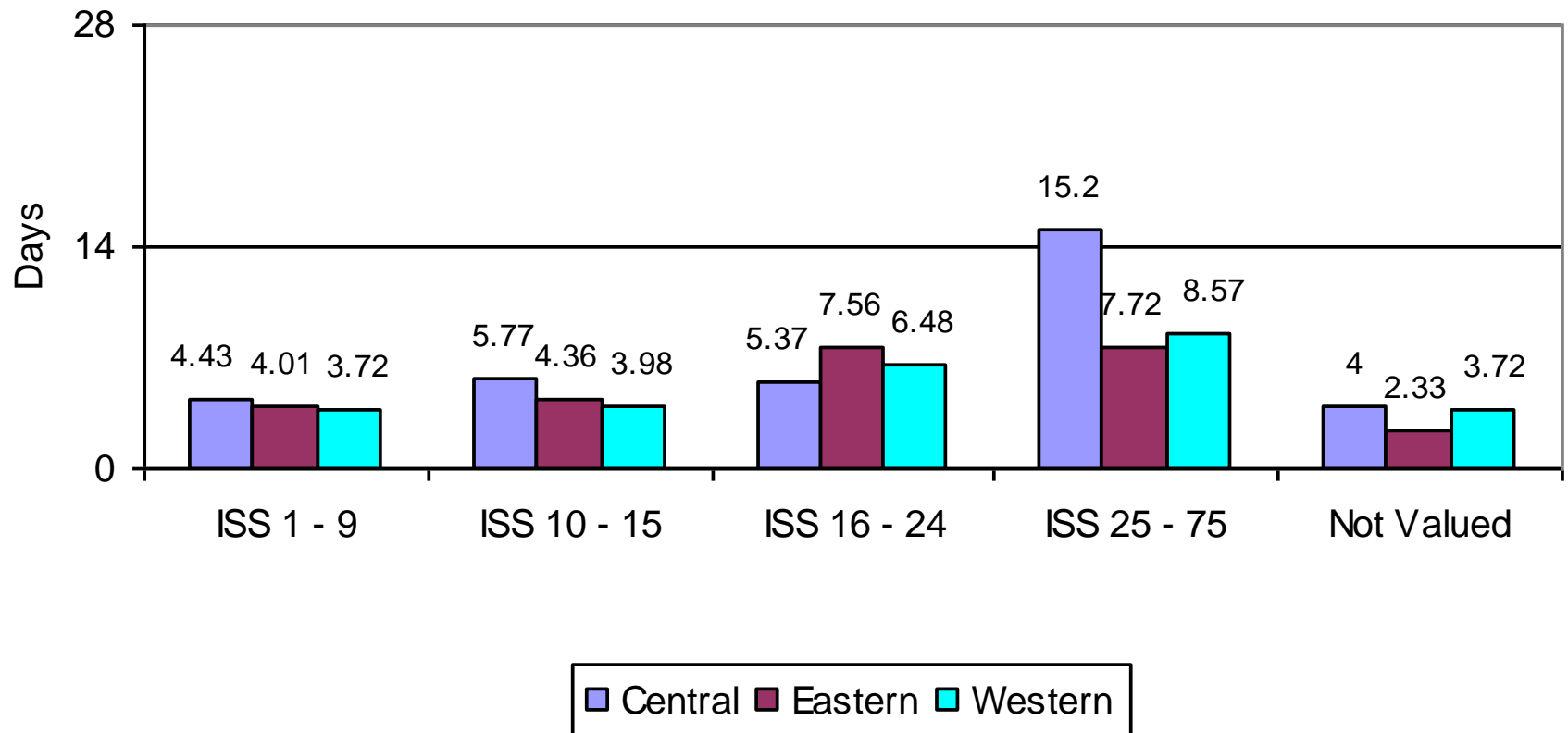
STATE ED LOS: >239 Minutes



N = 1248

MT STCC 1st and 2nd Qtrs 2008

Avg. Hospital LOS by Region

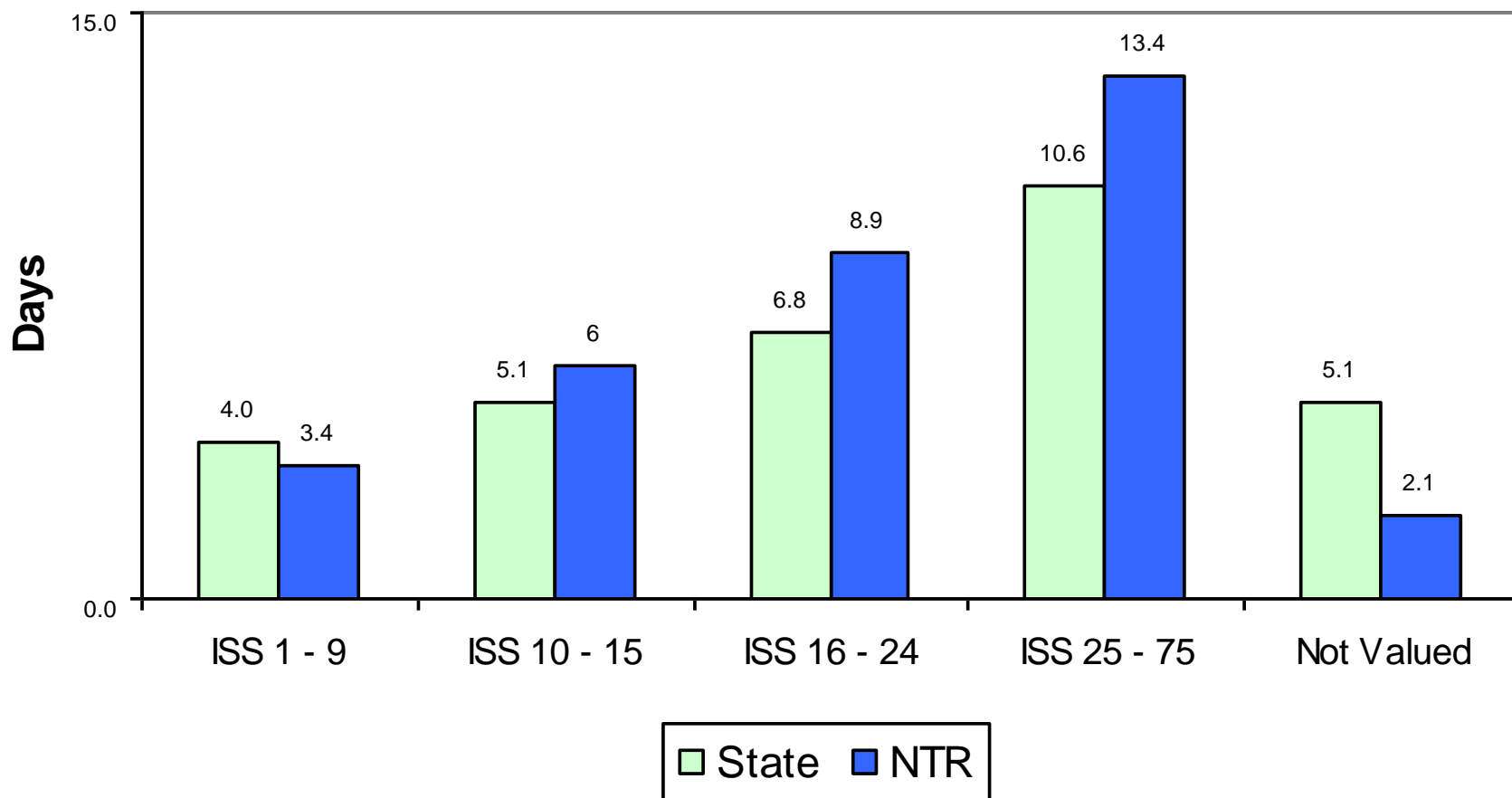


N = 1248

MT STCC 1st and 2nd Qtrs 2008

Avg. Hospital LOS

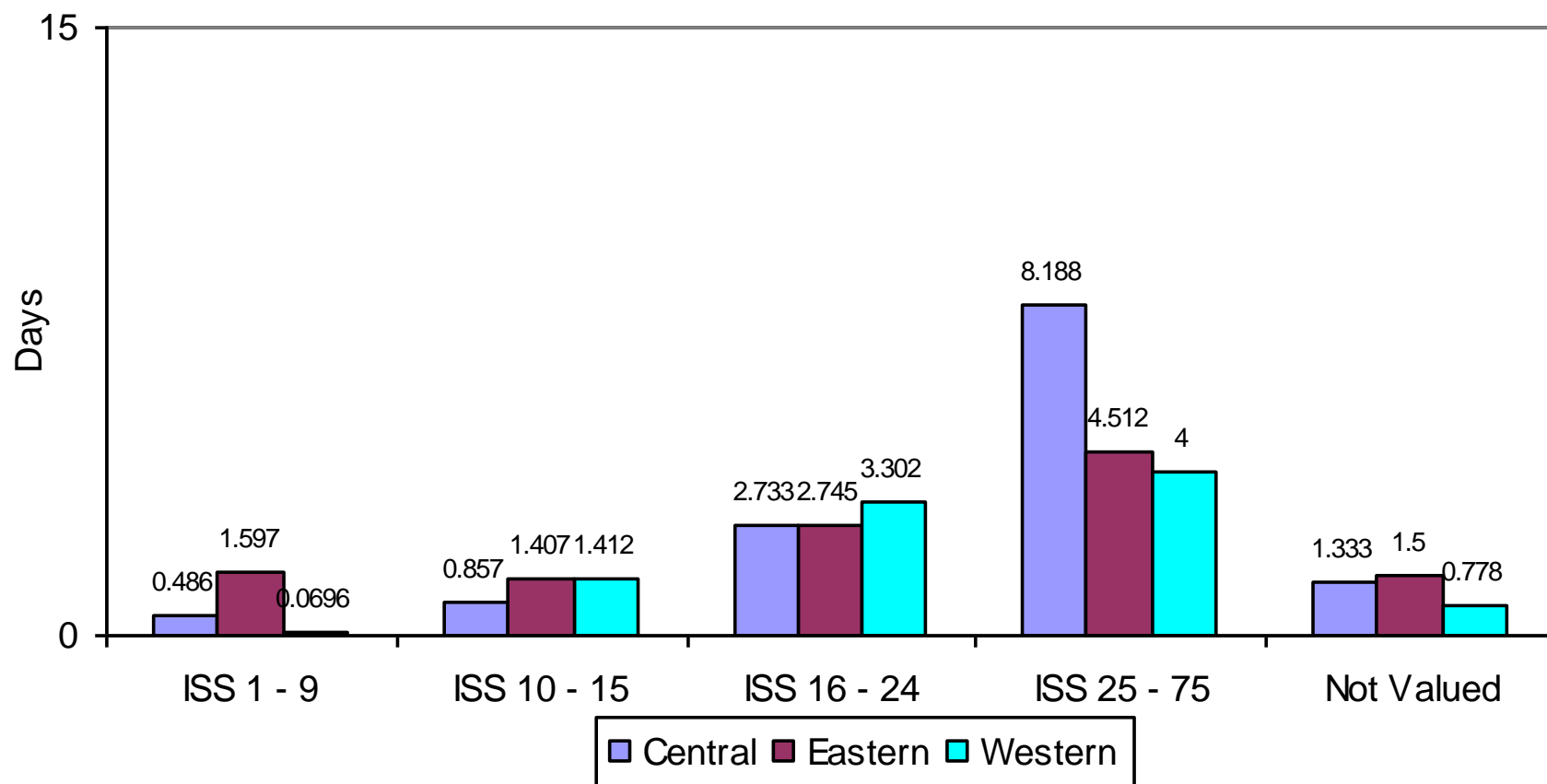
(comparing State and National Trauma Registry)



N = 1248

MT STCC 1st and 2nd Qtrs 2008

Avg. ICU LOS by Region

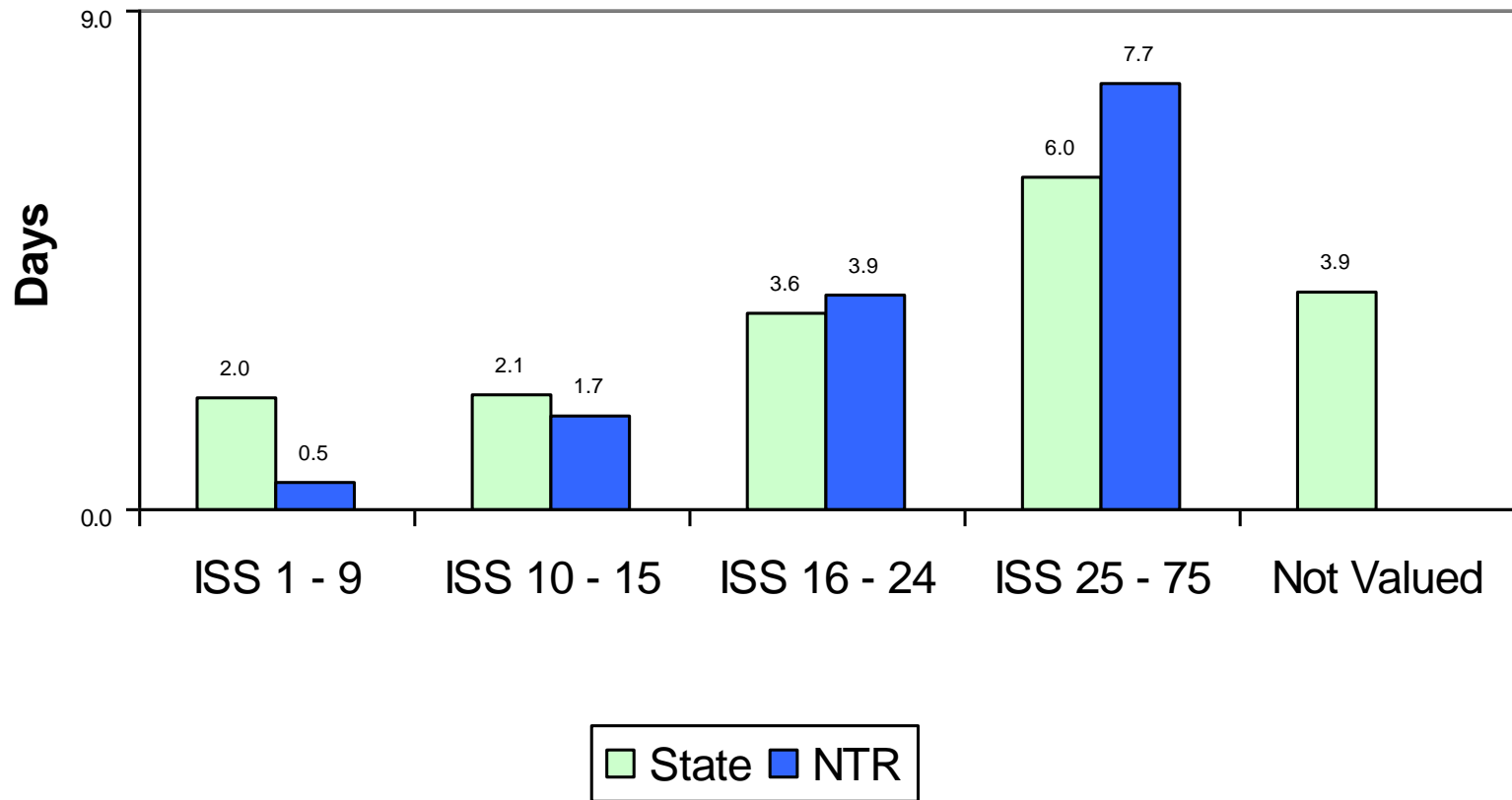


N = 1248

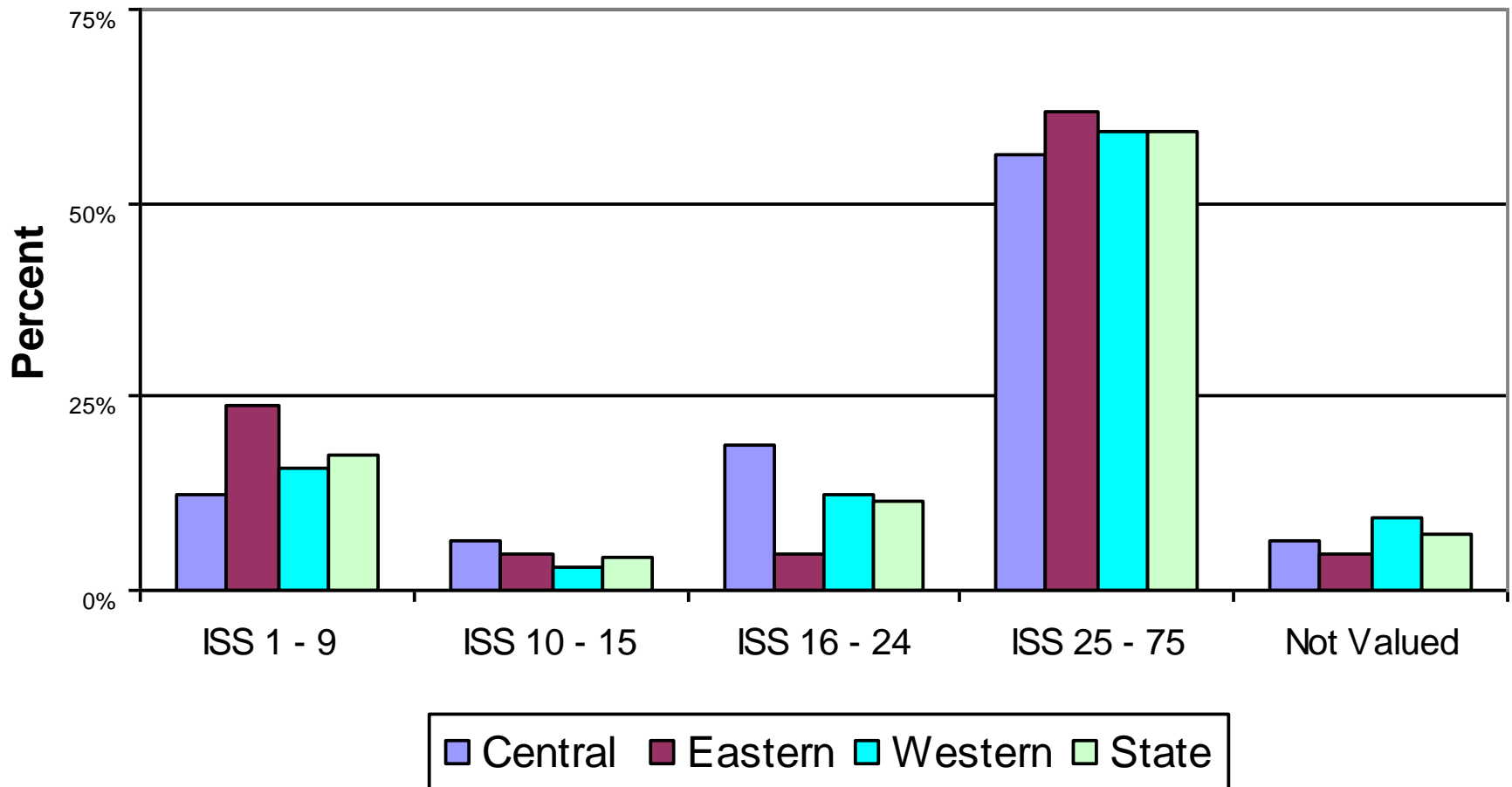
MT STCC 1st and 2nd Qtrs 2008

Avg. ICU LOS

(comparing State and National Trauma Registry)



Fatalities by ISS



N = 1248

MT STCC 1st and 2nd Qtrs 2008

Fatalities (no DOS)

Injury Causes Of Fatalities

N = 58 YTD

Falls – 17 (29%)

MVC – 12 (21%)

MCC - 7

Pedestrian – 2

Crushed- 4

GSW = 13 (22%)

SI = 8

LE = 1

Assault = 1

Other GSW = 3

Fatalities

MVC : 12

+ Restraint
3

- Restraint
8

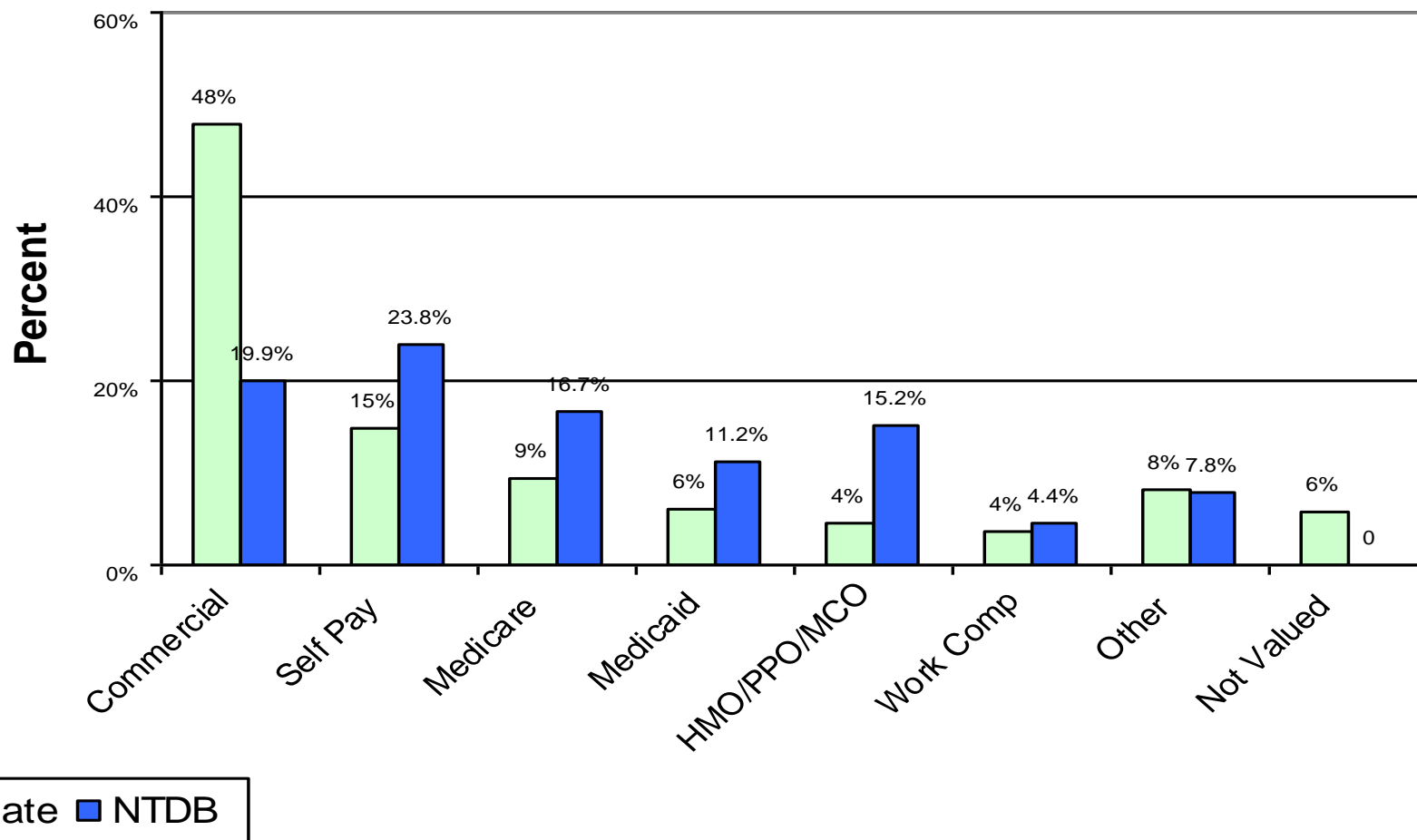
UNK
1

MCC : 7

+ H
3

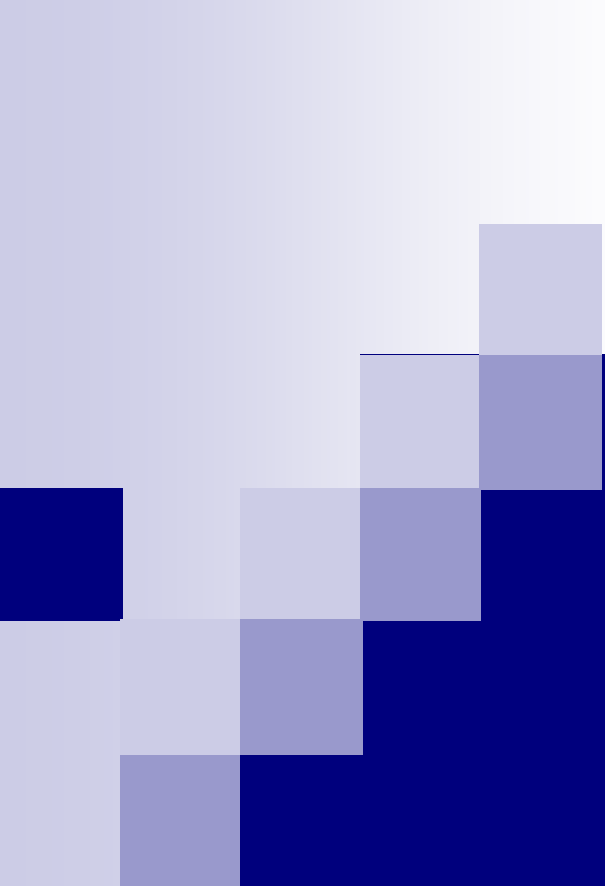
- H
4

Payors



N = 1248

MT STCC 1st and 2nd Qtrs 2008



Performance Indicators

1st – 2nd Quarters 2008
January 1 – June 30, 2007

N = 1248

MT STCC 1st , 2nd Qtrs 2008



PI # 1: Trauma Patients Transported per EMS Without Trip Report in the Medical Record

**Prehospital Transport: YTD 886 (71%)
(07: 72%)**

**Report available: YTD 633 (71%),
(07: 74%)**

**No Report: YTD 227 (29%), (07:25%)
ND: 4 (<1%)**

PI # 1 cont'd

Ambulance Transports YTD

Central: 122 (83%)

+ Report: 106 (87%), No Report 12 (10%), ND 4

Eastern: 387 (67%)

+ Report: 274 (71%), No Report: 110 (28%), ND 3

Western: 377 (71%)

+ Report: 253 (67%), No Report 105 (28%), ND 19

PI # 1

- **Incorporate EMS trip report tracking w/PIN network PI activity**
- **Refer to ECC for continuity of PI efforts**
- **Utilize “reinforcement/reminder” forums: TEAM Courses, RTAC meetings, feedback provided to CAH paper TR abstract users;**
- **Feedback from larger facilities w/transfers**


PI # 2: Transferred Trauma Patients w/ISS ≥ 15 & time at first facility ≥ 6 hrs

3 YTD transfers w/ISS ≥ 15 & time @ facility ≥ 6 hrs

Avg. hours = 6.6 hrs

2 transferred from ED; Avg time; 6.6hr

1 transferred after adm: 73 hrs



**PI #3: Trauma patients with
ISS \geq 15 and ED time \geq 2 hours**

Level II facilities excluded

YTD: 92 patients

- ☐ **YTD Average ED time:**
- ☐ **YTD Average ISS: 20**
- ☐ **Now looking at number of patients of facilities, mean & range of that facility & dispositions**



PI # 4:

**Trauma patients who died
with an ISS ≤ 15**

N= 2 YTD

1 low ISS w/+comorbidities

**1 “undercoded” due to lack of
complete Dx of injuries in ED**

ISS 9; Fall in BR- 84m

Laminar fx C1, pedicle fx C2

+co-morb CHF, HTN, COPD +Coumadin

Died next day ICU

**ISS 1; GSW head “other & unspecified open
wound of head” died ED**

**PI # 5: Patients w/GCS ≤ 9 & not
intubated**

Patients NOT transferred YTD:1

1st quarter: 1

**#1 22F, MVC unsuccessful resuscitation X 7”
no ET**

2nd quarter: 0

PI # 5: Patients w/GCS ≤ 9 & not intubated

Transferred Patients

YTD: 1

1st quarter: 1

2yr old fall, +LOC

Scene/1st ED GCS UNK

2nd ED GCS 9, head CT negative

Rapid clearing of GCS to 15 by ICU admission
(90" 2nd ED)

Dism to home after 2 hospital days, 1 ICU day,
Concussion, brief LOC